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- Science. 1995 Oct 20;270(5235):368-9, 371.

Quantitative monitoring of gene expression patterns with a complementary DNA microarray.

Schena M, Shalon D, Davis RW, Brown PO.

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A high-capacity system was developed to monitor the expression of many genes in parallel. Microarrays prepared by high-speed robotic printing of complementary DNAs on glass were used for quantitative expression measurements of the corresponding genes. Because of the small format and high density of the arrays, hybridization volumes of 2 microliters could be used that enabled detection of rare transcripts in probe mixtures derived from 2 micrograms of total cellular messenger RNA. Differential expression measurements of 45 Arabidopsis genes were made by means of simultaneous, two-color fluorescence hybridization.

PMID: 7569999 [PubMed - indexed for MEDLINE]

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